ORIGINAL COVER LETTER FROM



SABROSA WATER COMPANY, INC. PO Box 12742 Prescott AZ 86304 (928) 778-1888

November 2, 2011

RE DOCKET # W-02111A -11-0340

ARIZONA CORPORATION COMMISSION

Attached is an "Amended Finance" application for a revised amount on the above Docket No.

Don Bohlier Sabrosa Water Company

Arizona Corporation Commission DOCKETED

NOV 3 2011

DOCKETED BY

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ARIZONA CORPORATION COMMISSION



FINANCING APPLICATION

Sabrosa Water Company UTILITY NAME

W -02111A -11-0740 DOCKET NO(S)

You must complete ALL items in the application according to the instructions provided. If you have any questions regarding the application please call (602) 542-4251 for Staff assistance.

IN ORDER TO PROCESS YOUR APPLICATION
PLEASE FORWARD THE ORIGINAL
AND THIRTEEN COPIES OF THE
APPLICATION PLUS
THREE PACKETS OF THE SUPPORTING
DOCUMENTATION TO:

ARIZONA CORPORATION COMMISSION DOCKET CONTROL CENTER 1200 WEST WASHINGTON STREET PHOENIX, ARIZONA 85007



ARIZONA CORPORATION COMMISSION

Filing Requirements

ALL FILINGS REQUIRE

- 1.) An original + 13 copies
- 2.) The Docket number <u>MUST</u> be on all copies of the filing [to include the Cover Sheet].
 - a) The exception is a New Application.
- 3.) All copies must be properly collated.
- a) Please do not send stacks of documents for Docket to collate.
- 4.) No confidential or proprietary information will be docketed.
 - a) If you must file confidential information, you must make prior arrangements with the Hearing or Legal Division(s).
 - b) It is also the filing parties' responsibility to remove or redact any personal information that would not be appropriate for public view.
- 5.) All documents must be filed on 8-1/2" x 11" paper <u>NO EXCEPTIONS</u>. (Additional copies to be distributed to parties may be larger if necessary, please contact Docket Control 602-542-3477 for more information.)
- 6.) If the filing is for an existing Docket, the filing party must mail the filed document to ALL parties on the Service List (see E-Docket for copy of Service List).

COVER SHEETS ARE NO LONGER REQUIRED

If you have any questions concerning the filing of documents please contact Docket Control at (602) 542-3477.

Application Information Regarding Arizona Revised Statutes 40-301 and 40-302

The application for financing approval pursuant to Arizona Revised Statutes 40-301 and 40-302 shall include the following information:

- 1. The applicant's exact name and the address of its principal business office.
- 2. Name and address of the person authorized, on behalf of applicant, to receive notices and communications regarding the application.
- 3. A full description of the financings (debt or equity) proposed to be issued showing the kind, nature, and amount, the interest or dividend rate if any and its frequency, date of maturity, call features, voting privileges, and other detailed information regarding the financing itself. An explanation of whether the assets of the company will be encumbered by the financing (e.g. bank loan that is secured by company assets). If the financing is debt then provide a schedule of interest and principle payments. If the financing is a line of credit then provide a schedule of expected draw downs. Provide a description of the proposed method of issuing and selling the financing, including any special distribution rights to existing holders of the company's securities.
- 4. A statement showing the expected gross proceeds, issuance expenses, and net proceeds from the issuance and sale.
- 5. A complete description of the uses of the net proceeds, including descriptions of plant, property, or other assets to be acquired. Provide any capital expenditure budget that supports the proposed use of proceeds.
- 6. A statement that demonstrates why the financing is:
 - a. Within the corporate powers of the applicant;
 - b. Compatible with the public interest;
 - c. Compatible with sound financial practices; and,
 - d. Compatible with the proper performance by the applicant of service as a public service corporation and will not impair its ability to perform that service.
- 7. The name and address of any person receiving, or entitle to, a fee for service in connection with the issuance or sale of the financing and a demonstration that such fees do not exceed customary fees for such service in an arms-length transaction and are reasonable.
- 8. Provide a copy of any documents to be executed in the matter.

- 9. Provide the most recent balance sheet and income statement showing booked amounts and pro forma adjustments to record and show the effect of the transaction. Provide any other statements (such as pro forma statements from prior periods) that would demonstrate that the security issuance and sale is consistent with sound financial practices.
- 10. The Commission requires the Company to notice customers of the financing application. Attached is a copy of the notice to be used. Fill in the notice's blanks and either insert a copy of the notice in customers' next bill or have it published at least once in a newspaper of general circulation in the area in which the company serves. Please send proof of noticing to the Commission. Proof consists of the dated bill insert, a copy of the notice as it appeared in the newspaper or the receipt from the newspaper showing the date the notice is to be published.
- 11. Submit an original and thirteen (13) copies of the application and three (3) copies of the supporting documents to the following:

Arizona Corporation Commission Docket Control Center 1200 West Washington Street Phoenix, Arizona 85007

PUBLIC NOTICE OF AN APPLICATION FOR AN ORDER

AUTHORIZING THE ISSUANCE OF Wifa	(security)
BY Sabrosa Water Company	(company)

Sabrosa Water Company ("Company") filed an Application with the Arizona Corporation Commission ("Commission") for an order authorizing Applicant to issue \$136,252 (gross proceeds) of Wiff (security to be issued). The application is available for inspection during regular business hours at the office of the Commission in Phoenix, Arizona, and the Company's offices in Prescott Valley, Arizona.

Intervention in the Commission's proceedings on the application shall be permitted to any person entitled by law to intervene and having a direct substantial interest in this matter. Persons desiring to intervene must file a Motion to Intervene with the Commission which must be served upon applicant and which, at a minimum, shall contain the following information:

- 1. The name, address and telephone number of the proposed intervenor and of any person upon whom service of documents is to be made if different than the intervenor.
- 2. A short statement of the proposed intervenor's interest in the proceeding.
- 3. Whether the proposed intervenor desires a formal evidentiary hearing on the application and the reasons for such a hearing.
- 4. A statement certifying that a copy of the Motion to Intervene has been mailed to Applicant.

The granting of Motions to Intervene shall be governed by A.A.C. R14-3-105, except that all Motions to Intervene must be filed on, or before, the 15th day after this notice.

SABROSA WATER COMPANY, INC.

PO box 12742 Prescott AZ 86304 (928) 778-1888

November 2, 2011

RE DOCKET # W-02111A -11-0340

ARIZONA CORPORATION COMMISSION DOCKET CONTROL UTILITIES DIVISION FAX 602-542-2129

Attached are the estimates and project plans for 'Well head ' arsenic treatment for the Sabrosa Well and Zorrillo Well sites.

The total estimate for the Sabrosa Well site is \$62,627.43 + \$1,000.00 MCESD initial permit & review fees.

The total estimate for the Zorrillo Well site is \$71,624.94 + \$1,000.00 MCESD initial permit & Review fees.

Due to the unexpected high estimates for both well sites, we would like to suggest that we could take the Sabrosa Well off line and leave the water tank & booster pump on line in case water needs to be hauled in.

We are also requesting that the time clock resume in this rate case.

Don Bohlier

Sabrosa Water Company



Proposal

Sabrosa Water Company Attn: Don Bohlier 928-713-3772

November 1, 2011

Job Location: Sabrosa Well # 1

Scope of Work:

- 1) Provide all materials, and labor for field installation of the water treatment equipment and system including electrical circuits detailed on the documents provided by AdEdge Technologies dated 10-21-2001 for well site #1. This includes new sand pad for backwash water holding tank. Arrange for site loading and unloading as per AdEdgeTechnologies documents listed above.
- 2) Provide and install a new treated water atmospheric tank logic panel for low water cut off, high water shut off, low water cut in and dry contacts for alarm circuitry. Provide and install (1)1 HP Pump saver module at control panel for the well pump. Also provide and install (1) 7 day pump control at the distribution pump as specified by system operator.
- 3) Provide and install a new concrete mechanical pad for the new water system to be installed on. Provide and install a structural solar cover over the mechanical pad to protect the new mechanical equipment.
- **4)** Provide and install a new 2 inch water line underground from the water treatment system to the atmospheric treated water tank. Complete and assist start up of system at project completion.

Exclusions:

Tax, Water testing, Electrical panel upgrades if required, elastomeric coatings for exposed piping, Freeze protection and insulation.

TOTAL CONSIDERATION: \$28,027.43 includes tax

Deposit (50%) \$14,013.73

Material delivery (15%) \$ 4,204.11

Substantial Completion (15%) \$ 4,204.11

Water flow test (10%) \$ 2,802.74

Balance due upon start up (10%) \$ 2,802.74



Sabrosa Water Company

Site Profile and Proposal

Contact Information							
	Sabrosa Water Company		Date:	10/21/2011			
Site or Well Identity / Location:	Sabrosa Well #1 - AZ		Contact:	Don Bohlier	~~~		
Local Engineer / Firm:	Kathy Mills - Mills Engineering	<u> </u>	Contact Phone:	928-713-3772			
Engineer Phone			Fax:				
Operator:	Don Bohlier		Email;	dbohlier@cableone.ne	at		
Target Date for Installation:	2011 - Immediate Need			Doug Craver - 480-24	3-1824		
Treatment Goals:	Treatment needed to reduce a	rsenic < 10 ug/L c	consistently			en	
/stem Parameters / Site Specific Info							
System Type / Application:	Community Well	(utility, school, MH	P. other)	Site Specific Notes			
	***************************************	(estimated)		Small building is avail	able if equipment for	oot print small enough	
Number of Connections:	45	1		Old Proposals for this			
Number of Wells to be treated:	1	(# wells to be treat	ted)	WIFA loan is funded f	or 35K for both well	l sites	
Design Flow (GPM):	13	(Max design flow rate) (Typical demand)		Additional Funding can be attained if needed Corporation Commission currently operating system and contracted with Don Bohlier to bring system into compliance			
Ave Flow (GPM):	13						
Adedge Sizing Basis (GPM)	13						
Gallons per day:	1,200	(Ave throughput p	er day)	Install before end of 2	011 (required)		
Est. Usage (Gals / Year):	438000	(Best estimate)		Arsenic ranged from 3	33-37 ug/l over the	past year	
Existing Pretreatment or disinfection:	Chlorination - Sediment Filtrati	ion]			
Equipment available for offloading:	Assumed						
Pump Operation / Pressure:	40-60						
Electrical Power Availability:	120V						
Atm Storage Tank Present / Size:	2,000 gallon Atmospheric			Site Shipping Addres	55.		
	None			1			
Building present:	10'L × 6'W × 7'H						
Any additives ie, phosphates, fluoride:						An and appears as the same	
Discharge Options available:	None - Backwash Recycle Opt	tion Requested		J			
nter Analysis		0					
AUGI Andry 313		Parameters			Parameters	Law Miles	
pject Specific Parameters	pH Total As	7.50 0.035	units	Sodium Chlorides		mg/L Na	
gect opecinic r diameters	As(III)		mg/L As mg/L (if known)	Nitrates		mg/L CI mg/L as NO3	
	Total Sulfides		mig/L (total sulfides)	Conductivity	no data	mg/c as NO3	
des: All = Applies to all projects	Hardness		mg/L (as CaCO3)	Bicarbonates		mg/L (as CaCO3)	
1 = Arsenic project	Alkalinity		mg/L (as CaCO3)	Sulfate		mg/L as SO4	
2 = Iron / Mn / Sulfide / As project	Calcium		mg/L@Ca	Fluoride		mg/L F	
3 = Fluoride project	Magnesium		mg/L@/Mg	TDS		mg/L TDS	
4 = Uranium, Radium project	Silica		mg/L SiO2	Gross Alpha		pCi/L	
5 = Nitrate project	Phosphate		mg/L P04	Radium		pCi/L Ra 226/228	
6 = General Filtration	Suspended Solids		mg/L TSS	Uranium		mg/L U 238	
7 = UF / RO Membrane Filtration	lron		mg/L Fe	Turbidity		NTU	
8 = Other	Manganese	0.02	mg/L Mn	Temperature		degrees F	
	TOC	no data	mg/L TOC	Tannins		mg/L	
sorption		1 - Analas		r	·		
AdEdge Adsorption System:	MOD33-2162CO-2-285LL		Contact time (EBCT):	3.5		(based on peak flow)	
No of adsorbers:	(2) 21" x 62"		Ave flow rate:		<u> </u>	(typical expected)	
Qty of media (cu ft):	12	Jedela ander	Ave gallons/day :	1,20	0	(based on utilization)	
Adsorption System Approximate Footprint:	63"L x 30"W x 80"H		Hydraulic Utilization %:	6.419	%	(actual system utilization 24-7	
Media:	Bayoxide E33 10x35	Tana	Est. working capacity:	19,40		(bed volumes to breakthroug	
		1	Bed volumes/day:			T	
Operation:	Lead / Lag	1		13		(throughput)	
Backwash Frequency:	30-60 days @ 22 gpm	1 .	allons to breakthrough:	1,741,9		(arsenic breakthrough)	
Backwashing rate:	9 gpm/sq ft	E33 E	st. Media life (months):	hs): 24.2		(est frequency of changeout)	
Est. BW water (gallons) per event:	528	E33	Est. Media life (Years):	ars): 2.0		(est Lead Vessel)	
pital and							
	Included] ,	eplacement E33 media:	\$1,80	00	(media, excluding labor)	
CldUIII CUSIS Treatment System Canital I						 Beachild Committee Comm	
		_l Es	t. Annual Consumable:	\$200		(*If added at a later date)	
Sodium Hypochlorite Module:	Use Existing	10000000000000000000000000000000000000		1 0000	. 1	(media, consumable)	
Sodium Hypochlorite Module: AdEdge Shop Drawings:	Included		st. Annual Oper. Costs:	\$890			
Sodium Hypochlorite Module:			st. Annual Oper. Costs: ing Costs per 1000 gal:	\$0.0		(average calculated)	
Sodium Hypochlorite Module: AdEdge Shop Drawings:	Included			\$0.0	1	(average calculated)	
Sodium Hypochlorite Module: AdEdge Shop Drawings; Installation & Permits;	Included By Others	Operat	ing Costs per 1000 gal:	\$0.0 <\$30	1	(average calculated)	
Sodium Hypochlorite Module: AdEdge Shop Drawings: Installation & Permits: AdEdge Startup and Commissioning:	Included By Others Included	Operat	ing Costs per 1000 gal: Est. media disposal:	\$0.0 <\$30	1	(average calculated)	
Sodium Hypochlorite Module: AdEdge Shop Drawings: Installation & Permits: AdEdge Startup and Commissioning: Total Capital and Startup Costs:	Included By Others Included	Operat	ing Costs per 1000 gal: Est. media disposal:	\$0.0 <\$30	1	(average calculated)	
Sodium Hypochlorite Module: AdEdge Shop Drawings: Installation & Permits: AdEdge Startup and Commissioning:	Included By Others Included	Operat	ing Costs per 1000 gal: Est. media disposal:	\$0.0 <\$30	1 00 5	(average calculated)	

AdEdge Arsenic Adsorption System System Scope of Supply and Features

Sabrosa Water Company

Adsorption Vessels/Media

MOD33-2162CO-2-285-LL, adsorption system rated for up to 13 gpm flow Non skid-mounted system for field installation
(2) 21 x 62-inch composite vessels in Lead / Lag Configuration SCH 80 PVC hub and lateral collection system and riser AdEdge E33 arsenic adsorption media, (12) cubic feet total Gravel/quartz underbedding
Media fill: 6-inch top flange each vessel

Process Valves, Piping and Instrumentation

Top mounted automatic flow control package with Fleck controls Automatic functions / cycles

- (2) 2850NXT LCD timers
- 1.5-inch inlet / outlet threaded connections for each valve
- 1.0-inch discharge outlet threaded connection for each valve
- 2.0-inch mag meter for monitoring flow and water usage (installed by contractor)
- (4) 0-100 psi pressure gauges (installed by contractor)
- 1.0-inch manual diaphragm valve for backwash flow control (installed by contractor)
- 1.5" Auxilliary Backwash Inlet with Acutated Valve, Check Valves and Relay Box
- 1" Backwash Recycle Inlet (installed by contractor)
- Field piping to be completed by contractor

Field Services & Miscellaneous

AdEdge on-site start-up and commissioning of equipment
(1) Standard Operation & Maintenance manual provided at time of startup

Customer Provided Support

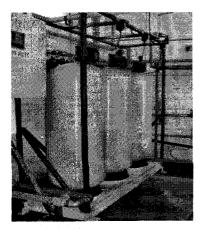
System receiving, offloading, and installation by others
Single phase 115v, 15 amp service to each process valve and dosing pump
Concrete slab or base for modular mounted unit
Existing building or protected from natural elements
Consistent water supply at 30 PSIG for service and backwash
1.5-inch rigid discharge to customer supplied drain
Unions, isolation & sample valves provided and installed by contractor
Availability of installer or operator for start up assistance

Terms

Lead time is 6-8 weeks for shipment to site upon receipt of purchase order
Freight is not included in capital pricing; FOB mfg location or Atlanta, GA
One year manufacturer warranty on equipment (terms and conditions to be provided)
30% due upon purchase order, 70% balance due upon shipment
Pricing valid for 45 days
Sales / use tax not included



10/21/2011



Example Modular Treatment System

Backwash Storage Tank

(1) 750 Gallon Backwash Tank Polyethylene vertical storage tank; dimension 48" dia. X 102" h

in/out/drain bulkhead fittings, level controls Level Transmitter with 4-20mA signal to AdEdge panel Offloading and Installation by others

Backwash Recycle Pump

Auotmated Control and system intergration Grundfos vertical centrifugal pump skid throttling valve, gauges, check valve 1.3 GPM @ 60 psi; Local control panel with HOA switch

Post Filtration

(1) BFN-12 Stainless Steel bag filter housings Pressure Gauge and Stainless Steel sample valve (50) 1-Micron Polyfelt bag filters 2" Offset Inlet & Outlet



Proposal

Sabrosa Water Company Attn: Don Bohlier 928-713-3772

November 1, 2011

Job Location: Zorillo Well Site #9

Scope of Work:

- 1) Provide all materials and labor for field installation of the water treatment equipment and system including electrical circuits detailed on the documents provided by AdEdge Technologies dated 10-21-2001 for well site #9. This includes new sand pad for backwash water holding tank.
- **2)** Arrange for site loading and unloading of all new equipment as per the AdEdge Technologies documents listed above.
- 3) Provide and install a new concrete mechanical pad for the new water system to be installed on. Provide and install a structural solar cover over the mechanical pad to protect the new mechanical equipment.
- 4) Complete and assist start up of the system at time of completion.

Exclusions:

Tax, Water testing, Electrical panel upgrades if required, elastomeric coatings for exposed piping, Freeze protection and insulation.

TOTAL CONSIDERATION: \$23,124.94 includes tax Deposit (50%) \$11,562.48 Material delivery (15%) \$3,468.74 Substantial Completion (15%) \$3,468.74 Water flow test (10%) \$2,312.49 Balance due upon start up (10%) \$2,312.49



Sabrosa Water Company

Site Profile and Proposal

Contact Information						
Customer / Utility			Date:	10/21/2011		
Site or Well Identity / Location	: Sabrosa Well #9 - AZ 2 &	nni II O	Contact:	Don Bohlier		
Local Engineer / Firm	: Kathy Mills - Mills Engineering		Contact Phone:	928-713-3772		
Engineer Phor			Fax:			
Operator			- 1, 6 (C) - 2 (C)	dbohlier@cableone.ne		
Target Date for Installation	(A)			Doug Craver - 480-243	3-1824	
Treatment Goal	Treatment needed to reduce a	rsenic < 10 ug/L	consistently			en
System Parameters / Site Specific Info	4.00					
System Type / Application	: Community Well	(utility, school, Mi	4P other)	Site Specific Notes:		
Population Serve	· · · · · · · · · · · · · · · · · · ·	(estimated)	1000		ble if equipment	foot print small enough
Number of Connection		1		Old Proposals for this		
Number of Wells to be treated	i : 1	(# wells to be trea	ited)	WIFA loan is funded fo	r 35K for both w	ell sites
Design Flow (GPM): 37	(Max design flow	Common is a transported by the control of the	Additional Funding can		
Ave Flow (GPM): 37	(Typical demand)		Corporation Commissi	on currently ope	rating system and
Adedge Sizing Basis (GPM		(Sizing Basis - Ad		contracted with Don Bo	ohlier to bring sy	stem into compliance
Gallons per da	· 	(Ave throughput p		Install before end of 20	11 (required)	·
Est. Usage (Gals / Year		(Best estimate)		Arsenic ranged from 33		e past year
Existing Pretreatment or disinfection				1		. ,
Equipment available for offloading	· · · · · · · · · · · · · · · · · · ·			1		
Pump Operation / Pressure	\ 					
Electrical Power Availabilit	<u> </u>					
Atm Storage Tank Present / Size				Site Shipping Addres	S:	
Hydropneumatic Tank Present / Size						
Building presen				1		
Any additives ie, phosphates, fluoride				1		
A CONTRACTOR OF THE PROPERTY O	None - Backwash Recycle Op	tion Requested			100	
Jesua go opioni su angli	Trone Backwasi Necycle Op	tion requested		J		
Vater Analysis	7	Parameters	1	li li	Parameters	7
	 Hq		units	Sodium		mg/L Na
Project Specific Parameters	Total As		mg/L As	Chlorides		mg/L CI
	As(III)		mg/L (if known)	Nitrates		mg/L as NO3
	Total Sulfides	no data	mg/L (total sulfides)	Conductivity	no data	1 3 3
odes: All = Applies to all projects	Hardness	no data	mg/L (as CaCO3)	Biçarbonates	no data	mg/L (as CaCO3)
1 = Arsenic project	Alkalinity	no data	mg/L (as CaCO3)	Sulfate	no data	
2 = Iron / Mn / Sulfide / As project	Calcium	no data	mg/L @ Ca	Fluoride	no data	
3 = Fluoride project	Magnesium		mg/L @ Mg	TDS	no data	
4 = Uranium, Radium project	Silica	75.60		Gross Alpha	no data	-1 707/00014-0000
5 = Nitrate project	Phosphate	0.05		Radium		pCi/L Ra 226/228
6 = General Filtration	Suspended Solids	no data	1 7	Uranium	no data	
7 = UF / RO Membrane Filtration	Iron	0.05	mg/L Fe	Turbidity	no data	
8 = Other	Manganese	0.02	mg/L Mn	Temperature		degrees F
	TOC			Tannins	no data	
	100	HO Data	jingre 100	Tannina [no data	Turke
Adsorption	uit, i tikkee in too					
AdEdge Adsorption System	MOD33-3672CO-2-285LL	1	Contact time (EBCT):	4.0	-	(based on peak flow)
						7
No of adsorbers		1	Ave flow rate:	37.0		(typical expected)
Qty of media (cu ft			Ave gallons/day :	9,500		(based on utilization)
Adsorption System Approximate Footprin	t: 94"L x 48"W x 94"H		Hydraulic Utilization %:	17.83%	6	(actual system utilization 24-7
Media	Bayoxide E33 10x35		Est. working capacity:	8,045		(bed volumes to breakthrough
Operation			Bed volumes/day:	32		(throughput)
		1			70	
Backwash Frequency		Laberra da 🚜 Alim	allons to breakthrough:	2,406,9	19	(arsenic breakthrough)
Backwashing rate		E33 E	st. Media life (months):	4.2		(est frequency of changeout)
Est. BW water (gallons) per even	t: 1,512] E33	Est, Media life (Years):	0.4		(est Lead Vessel)
Loc Dit mater (gamens) per even						
Lod Division (guilono) por ovon					annes anno anno i i i i anno anno anno anno a	
		***************************************				SEEST A TOTAL PROPERTY OF THE PROPERTY OF
apital and		1				1
apital and Operating Costs Treatment System Capita		1	eplacement E33 media:	\$6,000)	(media, excluding labor)
apital and		1	eplacement E33 media: st. Annual Consumable:	\$6,000 \$200)	(media, excluding labor) (*If added at a later date)
Capital and Operating Costs Treatment System Capita	Use Existing	E:				
apital and Operating Costs Treatment System Capita Sodium Hypochlorite Moduk	Use Existing	E:	st. Annual Consumable:	\$200	0	(*If added at a later date) (media, consumable)
apital and Operating Costs Treatment System Capital Sodium Hypochlorite Moduk AdEdge Shop Drawings Installation & Permits	Use Existing Included By Others	E:	st. Annual Consumable: st. Annual Oper. Costs: ling Costs per 1000 gal:	\$200 \$17,05 \$4.92	0	(*If added at a later date)
apital and Operating Costs Treatment System Capital Sodium Hypochlorite Module AdEdge Shop Drawings Installation & Permits AdEdge Startup and Commissioning	Use Existing Included By Others Included	Er E Operar	st. Annual Consumable: st. Annual Oper. Costs: ling Costs per 1000 gal: Est. media disposal:	\$200 \$17,05 \$4.92 <\$300	0	(*If added at a later date) (media, consumable)
apital and Operating Costs Treatment System Capital Sodium Hypochlorite Moduk AdEdge Shop Drawings Installation & Permits	Use Existing Included By Others Included	Er E Operar	st. Annual Consumable: st. Annual Oper. Costs: ling Costs per 1000 gal:	\$200 \$17,05 \$4.92	0	(*If added at a later date) (media, consumable)
apital and Operating Costs Treatment System Capital Sodium Hypochlorite Module AdEdge Shop Drawings Installation & Permits AdEdge Startup and Commissioning	Use Existing Included By Others Included	Er E Operar	st. Annual Consumable: st. Annual Oper. Costs: ling Costs per 1000 gal: Est. media disposal:	\$200 \$17,05 \$4.92 <\$300	0	(*If added at a later date) (media, consumable)
Capital and Operating Costs Treatment System Capital Sodium Hypochlorite Moduk AdEdge Shop Drawings Installation & Permits AdEdge Startup and Commissioning	Use Existing Included By Others Included St. Safe, 900	Er E Operar	st. Annual Consumable: st. Annual Oper. Costs: ling Costs per 1000 gal: Est. media disposal:	\$200 \$17,05 \$4.92 <\$300	0	(*If added at a later date) (media, consumable)
Capital and Operating Costs Treatment System Capital Sodium Hypochlorite Moduk AdEdge Shop Drawing Installation & Permit AdEdge Startup and Commissioning Total Capital and Startup Costs	Use Existing Included By Others Included Included State of the state o	Er E Operar	st. Annual Consumable: st. Annual Oper. Costs: ling Costs per 1000 gal: Est. media disposal:	\$200 \$17,05 \$4.92 <\$300	7	(*If added at a later date) (media, consumable)

AdEdge Arsenic Adsorption System System Scope of Supply and Features



Sabrosa Water Company

Sabrosa Well #9 - AZ

Adsorption Vessels/Media

Automatic functions / cycles

MOD33-3672CO-2-315-LL, adsorption system rated for up to 37 gpm flow Non skid-mounted system for field installation
(2) 36 x 72-inch composite vessels in Lead / Lag Configuration SCH 80 PVC hub and lateral collection system and riser AdEdge E33 arsenic adsorption media, (40) cubic feet total Gravel/quartz underbedding
Media fill: 6-inch top flange each vessel

Process Valves, Piping and Instrumentation

Top mounted automatic flow control package with Fleck controls

(2) 3150NXT LCD timers
2.0-inch inlet / outlet threaded connections for each valve
2.0-inch discharge outlet threaded connection for each valve
2.0-inch mag meter for monitoring flow and water usage (installed by contractor)
(4) 0-100 psi pressure gauges (installed by contractor)
2.0-inch manual diaphragm valve for backwash flow control (installed by contractor)
2" Auxilliary Backwash Inlet with Acutated Valve, Check Valves and Relay Box
1" Backwash Recycle Inlet (installed by contractor)
Field piping to be completed by contractor

Field Services & Miscellaneous

AdEdge on-site start-up and commissioning of equipment
(1) Standard Operation & Maintenance manual provided at time of startup

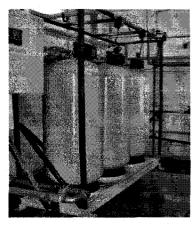
Customer Provided Support

System receiving, offloading, and installation by others
Single phase 115v, 15 amp service to each process valve and dosing pump
Concrete slab or base for modular mounted unit
Existing building or protected from natural elements
Consistent water supply at 30 PSIG for service and backwash
1.5-inch rigid discharge to customer supplied drain
Unions, isolation & sample valves provided and installed by contractor
Availability of installer or operator for start up assistance

Terms

Lead time is 6-8 weeks for shipment to site upon receipt of purchase order
Freight is not included in capital pricing; FOB mfg location or Atlanta, GA
One year manufacturer warranty on equipment (terms and conditions to be provided)
30% due upon purchase order, 70% balance due upon shipment
Pricing valid for 45 days
Sales / use tax not included

10/21/2011



Example Modular Treatment System

Backwash Storage Tank

(1) 1,750 Gallon Backwash Tank Polyethylene vertical storage tank; dimension 86" dia. X 74" h

in/out/drain bulkhead fittings, level controls Level Transmitter with 4-20mA signal to AdEdge panel Offloading and Installation by others

Backwash Recycle Pump

Auotmated Control and system intergration Grundfos vertical centrifugal pump skid throttling valve, gauges, check valve 3.5 GPM @ 60 psi; Local control panel with HOA switch

Post Filtration

(1) BFN-12 Stainless Steel bag filter housings Pressure Gauge and Stainless Steel sample valve (50) 1-Micron Polyfelt bag filters 2" Offset Inlet & Outlet

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October 31, 2011

Don Bohlier Granite Springs Water Co. P.O. Box 12742 Prescott, AZ 86304

RE: Engineering Services – Arsenic Treatment for Sabrosa Water Company, 13 gpm and 37 gpm Well Treatment Systems

Dear Mr. Bohlier:

Mills Engineering, LLC is pleased to send you this proposal for engineering services for the arsenic treatment systems for the Sabrosa and Zorilla wells. The following paragraphs describe our scope of work for the project:

Permitting and Construction Tasks:

- Obtain and review information. Obtain and review any available copies of the existing sites, laboratory results, O and M manuals, and other information. Obtain and review plans of treatment system, design report, operation and maintenance manual, startup and testing plan, sizing data, and any other available information from the manufacturer of the adsorption media.
- 2. Site Visit. Visit sites to review locations and constraints for the installation of the Arsenic treatment system. Take measurements, pictures, and gather information relevant to the design.
- 3. Prepare Plans, Report, and Specifications for Permitting. Draft plans showing the installation and details of the installation of the system. Prepare all calculations and draft O and M manual in a format acceptable to MCESD. Submit documents to MCESD for review and approval.
- 4. *Installation and Testing Review.* Review installation for compliance with approved plans. Witness and document pressure testing of the piping and treatment tanks after installation.
- 5. Disinfection. Following pressure testing, observe and document chlorine disinfection following the startup plan. Observe sampling of the water following flushing to submit to a certified laboratory for analysis. Obtain a copy of the total coliform bacteria test result from the water operator for the certificate of completion.
- 6. Validation Testing. After disinfection is complete, operator will sample raw water and treated water and test for Arsenic using a test kit. Operator will grab additional samples of the raw and treated water and submit to a certified laboratory for analysis of Arsenic. Obtain copies and review Arsenic test results. Include results with the certificate of completion.

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- 7. Final Operation and Maintenance Manual. Prepare a specific O and M manual and furnish three copies in three ring binders.
- 8. Engineer's Certificate of Completion. Submit the documentation of the testing, as-built drawings, sealed O and M manual and the sealed Engineer's Certificate of Completion to ADEQ.

The estimated costs for the engineering services tasks listed above are as follows for <u>each</u> site:

Obtain and Review Information, Prepare Plans and Reports	\$1800
Site Visit	\$300
Installation Review and Witness Testing	\$600
Disinfection Review	\$300
O and M Manual	\$300
Engineer's Certificate of Completion	<u>\$500</u>
TOTAL	\$3800

The above costs for the two sites will total \$7600. If the two sites are designed, permitted, submitted, and constructed at the same time, thereby reducing trips to the site to review installation and witness testing by combining them, the total for the two sites will be: \$6200.

These fees do not include the MCESD permit and review fees (\$1000 initial fee per treatment system), surveying, grading and drainage plans, special use permits, zoning variance, soil testing, gray water system design, sewer or septic system design, drinking water system design other than described above or hydraulic modeling, flow testing, pressure testing other than described above, water connection fees, soil and compaction testing, legal description of any lot splits, or recording of any legal descriptions with the County recorder's office. Please note that this proposal includes the attached Standard Terms and Conditions. Additional tasks may be added for an additional fee.

We are pleased to provide you with this proposal and look forward to your positive response. You may fax a copy of this page to us and mail one set of originals back to us signifying your acceptance of this proposal.

If you have any questions, please contact me.

Sincerely, Mills Engineering, LLC	I AGREE WITH THE ABOVE:
Kathryn Mills, P.E. Member	Signature
	Title
	Date

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Standard Terms and Conditions

- All required services outside of SCOPE OF WORK outlined will be provided upon the CLIENT'S request and will be billed at the rates quoted on the CURRENT FEE SCHEDULE. All fees for services quoted hereon are good for sixty (60) days.
- 2. Fees outlined in this contract will be adhered to subject to site conditions and criteria set forth by the CLIENT and the requirements of all applicable governmental agencies, utility companies, etc., in effect on the date of the ENGINEER'S signing of this contract. When an architectural site plan, survey, building plan or other plan is to be used as the basis for the ENGINEER'S plans or designs, no work by the ENGINEER will commence until the plans have been received. Subsequent changes to the plans which require additional work by the ENGINEER will result in extra charges at the rates quoted on the CURRENT FEE SCHEDULE.
- 3. In the event that a question of claim may arise as to an error or omission in the ENGINEER'S work or plans, the ENGINEER will assume no liability for errors or omissions unless notified within 48 hours of the CLIENT'S discovery of such. If notified within 48 hours, the ENGINEER will have the right to remedy any such errors or omissions within a reasonable and agreed upon time thereafter, at no additional cost to the CLIENT.
- 4. The CLIENT shall give authorization to the ENGINEER to commence each item of work as outlined in the SCOPE OF WORK. The CLIENT will be billed half upfront and final upon completion only for work performed.
- 5. CLIENT will be billed monthly, based on the percentage of work completed and/or hourly charges and reimbursable costs. A finance charge of one and one half percent (1-1/2%) per month (18% annual percentage rate) will be added to portions of accounts over 45 days past due and will result in immediate stoppage of all services until payment is received or other written agreements made. Any and all charges incurred by the ENGINEER to collect past due accounts will be paid by CLIENT. In the event litigation is instituted to enforce the provisions hereof the prevailing party or parties shallbe entitled to recover from the other party or parties in addition to all other relief to which such prevailing party or parties may otherwise be entitled all costs, expenses, and fees incurred by such party or parties (including such attorney's fees as shall be fixed by the court sitting without a jury).
- 6. The CLIENT hereby agrees that the balance as stated on the billing from the ENGINEER is correct, conclusive and binding on the CLIENT unless the CLIENT notified the ENGINEER in writing within ten (10) days of the billing date of the particular item that is alleged to be incorrect.
- 7. The obligation to provide further services under the SCOPE OF WORK may be terminated be either party upon seven (7) days' written notice. In the event of any termination, the ENGINEER will be paid for all services rendered to the date of termination plus unpaid reimbursable expenses.
- 8. The ENGINEER will not be responsible for the cost of permits, title company changes, governmental review fees, soils reports, printing, photographic charges, etc., as applicable, except those printing charges necessary for the ENGINEER to do his work. The ENGINEER will be reimbursed for such charges paid by him for the CLIENT at the rates quoted on the CURRENT FEE SCHEDULE.
- 9. The ENGINEER will not be responsible or liable for the following:
 - a. Any use of plans, specifications, etc., not signed and sealed by the ENGINEER and approved by the appropriate governmental agencies.
 - b. Inaccuracy of data, plans, legal descriptions or any other information supplied by the CLIENT.
 - Site soil and geologic conditions.
 - d. Changes to the plans and specifications made by the CLIENT or others.
 - e. Job site conditions.
 - The performance of work on this project by any construction contractor or third party.
- 10. LIMITATION OF LIABILITY. CLIENT agrees that ENGINEER'S liability for errors and omissions with respect to the work undertaken pursuant to this agreement shall be limited in all cases to the amount set forth in this agreement for engineering services or the total amount charged for such services to the extent that additional services outside the SCOPE OF WORK are authorized and performed.
- 11. All documents furnished by the ENGINEER are instruments of his service. They are not intended to be suitable for reuse or extensions of this project or any other project. Any reuse without specific written approval by the ENGINEER will be at the sole risk of the user and without liability or legal exposure to the ENGINEER.
- 12. Neither the CLIENT nor ENGINEER shall assign, sublet or transfer any rights under or interest in this contract without the written consent fo the other. Nothing herein shall be construed to give any rights or benefits hereunder to anyone other than the CLIENT or ENGINEER.
- 13. The ENGINEER makes no representation concerning any cost estimate figures made in connection with maps, plans, specifications or drawings other than that all cost figures are estimates only and the ENGINEER shall not be responsible for fluctuations in cost or quantity figures.
- 14. The CLIENT agrees to cooperate in every way requested by the ENGINEER to expedite the completion of the work set forth in this contract. The CLIENT agrees to provide the ENGINEER access to the property involved and to make available any records, documents, deeds, legal descriptions, or other items requested by the ENGINEER for the reasonable pursuit of the completion of the work.

- 15. The ENGINEER makes no warranty either expresses or implied, as to his findings, recommendations, specifications, or professional advice except that these were promulgated after being prepared in accordance with generally accepted engineering practices and under the direction of registered professional engineers.

 16. The preparation of Environmental Impact Statements and/or similar environmental documents is not included in this
- contract.
- 17. There are not understandings or agreements except as herein expressly stated.

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FEE SCHEDULE JANUARY 2008

PERSONNEL	RATE/HOUR
Commutar Operator (CAD)	\$70
Computer Operator (CAD) Project Engineer	\$120
<u> </u>	
Outside Services (Client Authorized)	Cost + 15%